CIVIL TECH LABS

Accredited by NABL as per ISO/ IEC 17025 : 2005

5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027

Ph: 080 - 4114 2867 / Mob. : 96862 31801, Email: civiltechlabs@gmail.com

T-2654

To,

Assistant Executive Engineer
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.

21st February 2015

Dear Sir,

Sub: Construction of drain and Concrete roads in Sanitary Core in Ward No. 04.
Testing of cubes – Reg.

As requested the 28th day Compressive Strength Test of Cubes was carried out for the above work for the samples supplied by you.

Please find the enclosed Test Reports of the above.

Thanking you,

For Civil Tech Labs,

(BASAVARAJ K.)
Executive Director

CIVIL TECH LABS BANGALORE

TEST REPORT

TEST ON CEMENT

Name & Address of the Customer	AEE, Yelahanka Satellite Town Sub Division, BBMP
Name of Work	Construction of drain and Concrete roads in Sunkadu Core in Ward No. 04
Name of the Agency	Sri. Ravikumar K.
Date of Testing	19/01/2015

Tests	Test Method As Per IS & Apparatus		Results		Requirements As Per IS 8112:1989	Remarks
	IS Code	Method	Value	Unit		
Initial Setting Time	IS-4031 (Part-5) 1988	VICAT	52	min	Not Less Than 30 Minutes	Satisfies Requirement
Final Setting Time	IS-4031 (Part-5) 1988	VICAT	486	min	Not More Than 600 Minutes	Satisfies Requirement
Soundness	IS-4031 (Part-3) 1988	LE-CHATELIER	3	mm	Not More Than 10 mm	Satisfies Requirement

Note:
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Lab Incharge
Civil Tech Labs

CIVIL TECH LABS PVT. LTD. BANGALORE

AEE

TEST REPORT

TEST ON FINE AGGREGATES (IS:383/2386)

Name & Address of the Customer	AEE, Yelahanka Satellite Town Sub Division, BBMP
Name of Work	Construction of drain and Concrete roads in Sanitary Core in Ward No. 04.
Name of the Agency	Sri. Ravikumar K.
Date of Testing	19/01/2015
Specific Gravity	2.56

Sample	IS Sieve designation (mm)	Sieve Analysis (% Passing IS Sieve)	Grading Requirement as per IS:383-1970				Grading Zone
			ZONE-I	ZONE-II	ZONE-III	ZONE-IV	
River Sand	10	100	100	100	100	100	II
	4.75	97.4	90-100	90-100	90-100	95-100	
	2.36	83.6	60-95	75-100	85-100	95-100	
	1.18	73.2	30-70	55-90	75-100	90-100	
	0.6	44.8	15-34	35-59	60-79	80-100	
	0.3	24.6	5-20	8-30	12-40	15-50	
	0.15	7.5	0-10	0-10	0-10	0-15	

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Lab Incharge
Civil Tech labs

CIVIL TECH LABS BANGALORE

TEST REPORT

TEST ON FINE AGGREGATES Ref IS:383/2386

Name & Address of the Customer	ARK, Yelahanka Satellite Town Sub Division, BBMP
Name of Work	Construction of drain and Concrete roads in Sanitary Core in Ward No. 04.
Name of the Agency	Sri. Ravikumar K
Date of Testing	19/01/2015
Specific Gravity	2.56

Sample	IS Sieve designation (mm)	Sieve Analysis (% Passing IS Sieve)	Grading Requirement as per IS:383-1970				Grading Zone
			ZONE-I	ZONE-II	ZONE-III	ZONE-IV	
River Sand	10	100	100	100	100	100	II
	4.75	97.4	90-100	90-100	90-100	95-100	
	2.36	83.6	60-95	75-100	85-100	95-100	
	1.18	73.2	30-70	55-90	75-100	90-100	
	0.6	44.8	15-34	35-59	60-79	80-100	
	0.3	24.6	5-20	8-30	12-40	15-50	
	0.15	7.5	0-10	0-10	0-10	0-15	

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TEST REPORT

TEST ON COARSE AGGREGATES 40mm ↓ Graded Ref:IS:383/2016

Name & Address of the Customer	AEE, Yelahanka Satellite Town Sub Division, BBMP
Name of Work	Construction of drain and Concrete roads in Sanitary Core in Ward No. 04.
Name of the Agency	Sri. Ravikumar K
Date of Testing	19/01/2015
Specific Gravity	2.66
Water Absorption in %	0.27

IS Sieve Designation (mm)	Sieve Analysis (% Passing IS Sieve)	Grading Requirement as per IS:383-1970 (Reaffirmed 2011)	Remarks
80	100	100	Satisfies the requirement
40	98.3	95-100	
20	54.1	30-70	
10	23.6	10-35	
4.75	3.4	0-5	

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Lab Incharge
Civil Tech Labs

AEE

TEST REPORT

TEST ON COARSE AGGREGATES 20mm & Graded Ref IS:383/2386

Name & Address of the Customer	AEE, Yelahanka Satellite Town Sub Division, BBMP
Name of Work	Construction of drain and Concrete roads in Sanitary Core in Ward No. 04.
Name of the Agency	Sri. Ravikumar K.
Date of Testing	19/01/2015
Specific Gravity	2.62
Water Absorption in %	0.38

IS Sieve Designation (mm)	Sieve Analysis (% Passing IS Sieve)	Grading Requirement as per IS:383-1970 (Reaffirmed 2011)	Remarks
40	100	100	Satisfies the requirement
20	98.3	95-100	
10	35.6	25-55	
4.75	8.3	0-10	

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Lab Incharge
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CIVIL TECH LABS BANGALORE

AEE

TEST REPORT

TEST ON REINFORCEMENT STEEL BARS 12mm

Name & Address of the Customer	AEE, Yelahanka Satellite Town Sub Division, BBMP
Name of Work	Construction of drain and Concrete roads in Sanitary Core in Ward No. 04.
Name of the Agency	Sri. Ravikumar K
Date of Test	19/01/2015

Sl.No.	Description	Result	IS 1786-1985 Min. Requirements	Remarks
1	Measured Diameter mm	12	12	Satisfactory
2	Wt/m Length (Kg/m)	0.889	0.888	Satisfactory
3	Bend & RebendTest	Pass	Should not Crack or Fracture	Satisfactory
4	Elongation (%)	14.9	14.5	Satisfactory
5	Yield Stress(N/Sq.mm)	422	415	Satisfactory
6	U T S (N/Sq.mm)	528	485	Satisfactory

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Lab Incharge
Civil Tech Labs

CIVIL TECH LABS BANGALORE

CIVIL TECH LABS
3, 1st Cross, Surveyor Layout, Mysore Road, Bangalore - 560 026
Ph: 080 - 23402567, Email: civiltechlabs@gmail.com

TEST REPORT

TEST ON REINFORCEMENT STEEL BARS 10mm

Name & Address of the Customer	AEE, Yelahanka Satellite Town Sub Division, BBMP
Name of Work	Construction of drain and Concrete roads in Sanitary Core in Ward No. 04.
Name of the Agency	Sri. Ravikumar K
Date of Testing	19/01/2015

Sl.No.	Description	Result	IS 1786-1985 Min. Requirements	Remarks
1	Measured Diameter mm	10	10	Satisfactory
2	Wt/m Length (Kg/m)	0.618	0.617	Satisfactory
3	Bend & RebendTest	Pass	Should not Crack or Fracture	Satisfactory
4	Elongation (%)	14.7	14.5	Satisfactory
5	Yield Stress(N/Sq.mm)	419	415	Satisfactory
6	U T S (N/Sq.mm)	524	485	Satisfactory

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Lab Incharge
Civil Tech Labs

AE/E

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T-2654

To,

Assistant Exccutive Engineer
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.

20th January 2015

Dear Sir,

Sub: Testing of Materials.

As requested, tests on physical properties were carried out for the materials supplied by you, for the work of **'Construction of drain and Concrete roads in Sanitary Core in Ward No. 04.'**

Please find the enclosed Test Reports of the above.

Thanking You,
For Civil Tech Labs

(BASAVARAJ K.)
Executive Director

CIVIL TECH LABS BANGALORE

TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Customer	AEE, Yelahanka Satellite Town Sub Division, BBMP
Name of Work	Construction of drain and Concrete roads in Sanitary Cove in Ward No. 04.
Name of Agency	Sri. Ravikumar K.
Grade of Concrete	M-20
No. of cubes tested	3
Dimension of Specimen	150mmx150mmx150mm
Cross Sectional Area	22500 mm²
Technical Reference	IS: 516-1959 (ReaffirmeI 2013)

Sl. No.	Identification	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (kN)	Compressive Strength (N/mm²)	Avg Compressive Strength (N/mm²)
1	CC-Work	22/01/2015	19/02/2015	28	8.19	480	21.33	21.19
2					8.20	485	21.56	
3					8.18	465	20.67	

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Lab Incharge
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CIVIL TECH LABS BANGALORE

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TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Customer	AEE, Yelahanka Satellite Town Sub Division, BBMP
Name of Work	Construction of drain and Concrete roads in Sanitary Cove in Ward No. 04.
Name of Agency	Sri. Ravikumar K
Grade of Concrete	M-15
No. of cubes tested	3
Dimension of Specimen	150mmx150mmx150mm
Cross Sectional Area	22500 mm²
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	Identification	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm²)	Avg Compressive Strength (N/mm²)
1	CC-Work	24/01/2015	21/02/2015	28	8.16	350	15.56	15.88
2					8.17	358	15.91	
3					8.18	364	16.18	

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